

THE ESTATE OF ERIK A. POWELL, etc., et al. v. CITY AND COUNTY OF
HONOLULU

U.S. District Court for the District of Hawaii
Civil No. CV04-00428 DAE-LEK

EXHIBIT "36a"

Roger Lukas

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Education

Ph.D., Oceanography, 1981, University of Hawaii

M.S., Oceanography, 1977, University of Hawaii

A.B., Mathematics, 1973, University of Southern California

Employment

08/98-01/99	sabbatical leave
07/91-Present	Professor, Dept. of Oceanography, University of Hawaii
07/90	Tenure awarded
01/87-06/91	Associate Professor, Dept. of Oceanography, University of Hawaii
07/86-12/86	Associate Oceanographer, Hawaii Institute of Geophysics, University of Hawaii
04/84-Present	Senior Fellow, Joint Institute for Marine and Atmospheric Research, University of Hawaii
10/82-06/86	Assistant Oceanographer, Hawaii Institute of Geophysics, University of Hawaii
12/81-09/82	Visiting Scientist, Joint Institute for Marine and Atmospheric Research, University of Hawaii
01/75-12/81	Graduate Research Assistant, University of Hawaii
09/74-01/75	Graduate Teaching Assistant, University of Hawaii
01/74-04/74	Laboratory Assistant, Woods Hole Oceanographic Institution

Committee and Other Service

International

2004	adviser, Volkswagen Foundation
2002-2003	member, Organizing Committee, Symposium on New Perspectives of Coupled Tropical Ocean-Atmosphere Dynamics and Predictability, IUGG/IAPSO Congress, Sapporo, July 2003
2000-	member, GOOS/GCOS/CLIVAR Time Series Science Steering Group
2000-2001	member, Organizing Committee, International Workshop on the Implementation of CLIVAR Programs in the Pacific
1999	External Review Committee, Univ. of Tokyo
1998-2002	Program Coordinator, Ocean Dynamics and Climate, IOC/WESTPAC
1996-1998	co-Chair, Organizing Committee for COARE98 Conference
1996-1997	co-Chair, Feasibility Study Working Group for the International Pacific Research Center
1995-2001	member, World Climate Research Programme CLIVAR Asian-Australian Monsoon Panel
1995	Chair, Organizing Committee for CLIVAR-GOALS Workshop on Asian-Australian Monsoon Oceanography and Meteorology
1995	co-Convenor, COARE Symposium, Int. Assoc. Phys. Sci. Ocean. XX General Assembly, Honolulu, Hawaii, August 1995
1993-1997	member, TOGA TAO Implementation Panel
1993	member, World Climate Research Programme Pacific Ocean Panel
1992-1993	member, CCCO (Committee on Climate Change and the Ocean) Pacific Ocean Climate Studies Panel
1991	Convenor, Workshop on Low-Latitude Western Boundary Currents in the Pacific Ocean (Honolulu, Hawaii, February 25-March 1, 1991)
1989-1994	member, WCRP TOGA COARE Panel
1989	co-Convenor, Western Pacific International Meeting and Workshop on TOGA/COARE (Nouméa, New Caledonia, May 1989)
1988	Member of Organizing Committee for US/PRC Symposium on Western Pacific Air-Sea Interactions, Beijing, November 1988
1984-2002	U.S. representative for Task Team on Ocean Dynamics in the Tropical Pacific for WESTPAC (under the Intergovernmental Oceanographic Commission of the United Nations)

National

2004	reviewer, NAS/NRC report "Review of the U.S. Climate Variability and Predictability (CLIVAR) Project Office"
2002	reviewer, NAS/NRC reports (Exploration of the Seas; Abrupt Climate Change)
2001	member, NSF physical oceanography review panel
2000-present	member, US CLIVAR Asian-Australian Monsoon Working Group
2000-2001	member, American Meteorological Society Oceanographic Awards Committee

1999-2002	member, US CLIVAR Pacific Implementation Panel
1999-2001	member, Ocean Studies Board, National Academy of Sciences
1999-2000	member, Committee on Seafloor Observatories, National Research Council
1999-2000	member, American Meteorological Society Meetings Committee
1999	member, US delegation, IOC/WESTPAC IV, Seoul, South Korea
1998-2000	member, American Meteorological Society Stommel Research Award Committee
1998	co-Chair, COARE-98 Organizing Committee
1997	member, US delegation, IOC/WESTPAC III, Tokyo, Japan
1996-1998	member, Committee on Major U.S. Oceanographic Research Programs, National Academy of Sciences
1995-1996	member, US Ocean CLIVAR Central Coordinating Committee
1995-1996	member, US Ocean CLIVAR Project Steering Committee on Process Experiments
1995-1997	member, American Meteorological Society Committee on Membership Diversification
1995-1996	Organizer and Co-Convenor, Eighth Conference on Air-Sea Interaction, 1996 Annual Meeting of the American Meteorological Society.
1995-1996	Organizer and Co-Convenor, GOALS Symposium, 1996 Annual Meeting of the American Meteorological Society.
1995	Invited Participant, National Research Council Workshop on the U.S. Global Change Research Program and NASA's Mission to Planet Earth/Earth Observing System
1994-1997	member, National Academy of Sciences GOALS Advisory Panel
1994	member, National Research Council Committee to Review U.S. Planning for the Global Ocean Observing System
1994-1996	Chair, Science and Technology Advisory Committee on Interaction of the Sea and Atmosphere, American Meteorological Society
1993-1997	member, NOAA Climate and Global Change Advisory Panel
1988-1996	member, National Academy of Sciences TOGA Advisory Panel
1988-1994	Co-Chair, U. S. TOGA/COARE Science Working Group
1988-1997	member, TOPEX/Poseidon Science Working Team
1989	Convenor, Klaus Wyrtki Symposium, American Geophysical Union 1989 Fall Meeting
1987	Co-Convenor of the U.S. TOGA Western Pacific Air-Sea Interaction Workshop (Honolulu, Hawaii, September 1987)
1985-1987	member, National Science Foundation Ocean Sciences Advisory Panels
1984-1989	member, Scientific Steering Committee for the US/PRC Bilateral Agreement on Air-Sea Interaction Studies in the Western Pacific

State of Hawaii

1999-2001	member, Advisory Committee on Public Swimming Pool Rules
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University of Hawaii

2004-2005	member, Chancellor's Lyon Arboretum Research Task Force
2004	member, Chancellor's RTRF Flood Relief Committee
2004	member, Chancellor's Research Committee
2003-present	UH System Task Force on RCUH Employment
2003-present	UH System Business Process Council
2004-2005	SEC liaison to Committee on Research; Committee on Student Affairs
2003-2004	SEC liaison to Committee on Administration and Budget; Committee on Professional Matters
2003-2005	Manoa Faculty Senate Executive Committee
2003-2005	Manoa Faculty Senate
2002-2004	President's Advisory Council on Plans and Priorities
2002-2004	SOEST Computer Committee
2002	Manoa Strategic Planning Committee
2002	Department of Oceanography Merit Increase Review Committee
2002	Department of Oceanography Student Attrition Committee
2001-2002	Department of Oceanography Teaching Policy Committee
1997-present	Executive Committee, University of Hawaii Association of Research Investigators
1995-1997	Department of Oceanography Select Committee on Ocean Resources
1995-1997	Department of Oceanography Budget and Resources Committee
1995-1997	Department of Oceanography Space Committee
1995	Chair, Physical Oceanography Division
1991	SOEST Climate Initiative Faculty Search Committee
1990-1991	Tenure and Promotion Review Committee #7
1990-1995	SOEST Ship Users' Advisory Committee
1990	Chair, Physical Oceanography Faculty Search Committee
1990-1992	Department of Oceanography Space Committee
1988-1989	Physical Oceanography Faculty Search Committee
1988-1989	Physical Oceanography Admissions Committee
1988-1989	Oceanography Department Personnel Committee
1988	UH/APT Personnel Committee for Hawaii Institute of Geophysics
1988	Department of Oceanography Undergraduate Education Committee
1986-1988	University of Hawaii Diving Control Board
1984-1989	Chair, MSB Computer Committee
1984-1990	JIMAR Council member
1982-1989	Hawaii Institute of Geophysics Computer Users Committee
1982-1984	UH/APT Personnel Committee for Hawaii Institute of Geophysics

Research Corporation of the University of Hawaii

2003 co-Chair, RCUH Strategic Planning Committee
2002-2003 member, search committees (3) for RCUH Executive Director

Professional Society Membership

American Geophysical Union (life member)
American Meteorological Society
The Oceanography Society (life member)

Honors and Awards

Special Award of the American Meteorological Society (1996)
Graduate Fellowship from the Achievement Rewards for College Scientists (ARCS) Foundation
(two awards)

Bibliography

Books

Soloviev, A., and R. Lukas, 2004: The Near-Surface Layer of the Ocean. Springer, pending submission (final editing).

Chapters in Books

Kessler, W.S., R.E. Davis, K. Takeuchi and R. Lukas, 2001: The Pacific Basin Extended Climate Study. In: Observing the Ocean for the 21st Century, C.J. Koblinsky and N.R. Smith (eds), Melbourne, Australia: Uniprint Pty. Ltd.

Send, U., R. Weller, S. Cunningham, C. Eriksen, T. Dickey, M. Kawabe, R. Lukas, M. McCartney and S. Osterhus, 2001: Oceanographic Timeseries Observatories. In: Observing the Ocean for the 21st century. C. Koblinsky and N. Smith, eds., Melbourne, Australia: Uniprint Pty. Ltd.

Lukas, R., 2001: Pacific Equatorial Currents. In: Encyclopedia of Ocean Sciences, J.H. Steele, S.A. Thorpe, and K.A. Turekian, eds., Academic Press, London.

Winn, C.D., R. Lukas, D. Hebel, C. Carrillo, R. Letelier and D.M. Karl, 1993: The Hawaii Ocean Time-series program: Resolving variability in the North Pacific. In: Recent Advances in Marine Science and Technology. N. Saxena, ed., 139-150.

Lindstrom, E., J. Butt, R. Lukas and S. Godfrey, 1990: The flow through Vitiaz Strait and St. George's Channel, Papua New Guinea. In: The Physical Oceanography of Sea Straits, Kluwer Academic Publishers, The Netherlands, 171-189.

Lukas, R., 1990: Freshwater Input to the Western Equatorial Pacific Ocean and Air-Sea Interaction. Air-Sea Interaction in Tropical Western Pacific: Proceedings of US-PRC International TOGA Symposium, 1988 Beijing. C. Jiping and J.A. Young, eds., China Ocean Press, China, 305-327.

Edited Volumes

Bradley, F. and R. Lukas, 1999: COARE'98: Proceedings of a conference on the TOGA Coupled Ocean-Atmosphere Response Experiment (COARE). WCRP-107, WMO/TD-No. 940. World Climate Research Programme/World Meteorological Organization, Geneva, 416 pp.

Lukas, R., T. Yamagata, and J. McCreary, guest eds., 1996: Pacific Low-Latitude Western Boundary Currents. Special section of J. Geophys. Res. (Oceans), Vol. 101, No. C5.

Lukas, R., P. Webster and J. Picaut, guest eds., 1991: Oceanography and Meteorology of the Western Pacific Warm Pool: Papers from the Western Pacific International Meeting and Workshop on TOGA/COARE. J. Geophys. Res., 96, Supplement to JGR-Atmospheres and -Oceans, 313 pp.

Picaut, J., R. Lukas and T. Delcroix, eds., 1989: Proceedings of the Western Pacific International Meeting and Workshop on TOGA COARE, Noumea, New Caledonia, 24-30 May, ORSTOM/Nouméa, New Caledonia, 833 pp.

Lukas, R. and P. Webster, eds., 1988: Proceedings of the U.S. TOGA Western Pacific Air-Sea Interaction Workshop, Honolulu, Hawaii 16-18 September 1987. U.S. TOGA Rept. USTOGA-8, U. Corp. Atmos. Res., 207 pp.

Articles in Refereed Journals

Lukas, R., P. Hacker, and J. Hummon, 2001: An Extremely Sharp Thermocline Observed in the Near-Equatorial Indian Ocean. Manuscript in progress for submission to GRL.

Lukas, R., F. Santiago-Mandujano and C. Nosse, 2001: Temporal evolution of intrusive features in the intermediate waters north of Hawaii. J. Geophys. Res., planned submission.

- Lukas, R. and F. Santiago-Mandujano, 2001: High frequency abyssal variations near Hawaii. *J. Geophys. Res.*, planned submission.
- Hacker, P., R. Lukas, J. Hummon, E. Firing, T.M. Shaun Johnston, Peter J. Webster and K. Sahami, 2001: Observations of upper ocean, intraseasonal variability in the Bay of Bengal during the southwest monsoon onset. *Geophys. Res. Lett.* (in preparation)
- Soloviev, A., R. Lukas, P. Hacker, and K. Richards, 2000: Space and time variability of the upper ocean density and velocity fields in the western equatorial Pacific warm pool. *J. Geophys. Res.*, manuscript for submission.
- Feng, M., R. Lukas, P. Hacker, A. Pluedemann, and R. Weller, 2004: Upper ocean momentum balances in the western equatorial Pacific on the intraseasonal time scale. *Deep-Sea Research*, accepted.
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- Feng, M., M.A. Merrifield, R. Pinkel, P. Hacker, A.J. Plueddemann, E. Firing, R. Lukas and C. Eriksen, 1998: Semidiurnal tides observed in the western equatorial Pacific during the Tropical Ocean-Global Atmosphere Coupled Ocean-Atmosphere Response Experiment. *J. Geophys. Res.*, 103, 10,253-10,272.
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